Saidur Rahman

Email: saidurrahman@montana.edu http://saidurrahman.info Mobile: +1-406-580-9126

EDUCATION

Montana State University

Ph.D. in Computer Science; CGPA 3.85/4.0

Bozeman, MT, USA Aug 2017 - Present

EXPERIENCE

Montana State University

Bozeman, MT

Graduate Research Assistant · AMELIA Project (Funded by NSF)

Aug 2018 - Present

- o Edge Computing: I work on our proposed MicroLambda Edge Setup for AMELIA team for Real-time Machine learning and Mixed Reality applications.
- o Database and Pub-Sub: I also work on the database setup for Lambda Invocation, efficiency physiological signal data storation, publish-subscribe for computation output

Samsung R and D

Dhaka, Bangladesh

Software Engineer · Gear 360

Sep 2016 - Dec 2016

o iOS 360 Gear Manager: Worked on Gear 360 team to develop iOS App for Samsung 360 degree Camera. Particularly, I was working on the stitching engine and connectivity of 360 Camera

PROJECTS

Unstable Slope Management Program (Funded by Federal Highway Partners): Developing application for NPS, FLMAs, FHA geologists using React-Native (Mobile App) and PHP-Javascript

Innovation for Autistic Children: Built puzzle games with attractive graphics and animations to teach autistic children about Bangladeshi culture.

CSEDU Image Viewer and Editor-18.4.54: We implement image processing method (ex: Noise Detection and Reduction, Edge Detection, Gaussian blur, gray scaling technique, etc.) using C, C++ and OpenCV.

SKILLS

Languages: Python, C/C++, NodeJS, Bash, Java, PHP

Technologies: Linux, Serverless, Containerization, Amazon AWS, Mininet, Docker, OpenFaaS

Systems: Redis, Postgres, MongoDB, Realm, RethinkDB, AWS (S3, SQS, DynamoDB), Google Pub-Sub, Firebase

RESEARCH AREA

Distributed Edge Computing, Realtime ML-Edge Infrustracture, Edge-5G Scheduling, Serverless-Lambda Edge

PUBLICATIONS

MicroLambda Packetized Computation for 5G Mobile Edge Computing: Published in 3rd USENIX Workshop on Hot Topics in Edge Computing (HotEdge 20)

MR-DNS: Multi-Resolution Domain Name System: Published in International Conference on Internet and Distributed Computing Systems, 2019

Internet Data Budget Allocation Policies for Diverse Smartphone Applications: Published in EURASIP Journal on Wireless Communications and Networking, 2016 (Impact: 2.407)

Optimal allocation of 3G budget for smartphones running heterogeneous applications: Published in International Conference on Networking Systems and Security, Dhaka, 2016

ACHIEVEMENT

NSDI 2020 Student Travel Grant, BD-Sweden Trust Higher Study Travel Grant 2019